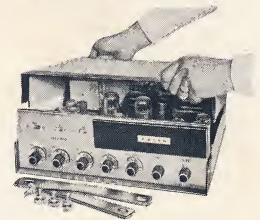


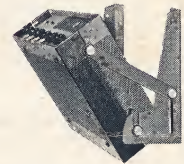
# BOGEN SOUND SYSTEMS



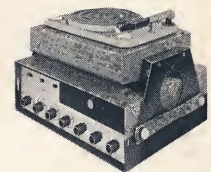
## Exclusive FLEX-PAK Features—



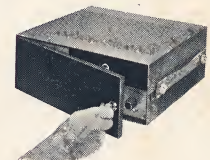
EASY-TO-REMOVE  
LID FOR FAST SERVICING



AMPLIFIER FOLDS BACK  
WHEN NOT IN SERVICE



SIMPLIFIED MOUNTING  
FOR RECORD PLAYER



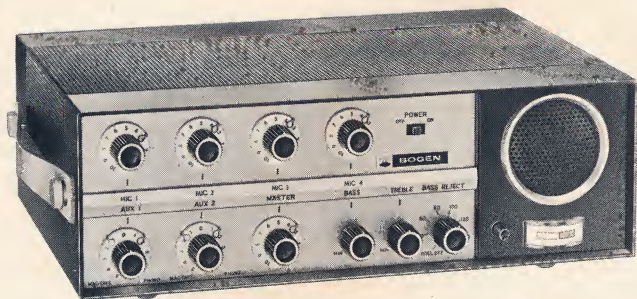
LOCKING PLATE PREVENTS  
CONTROL TAMPERING

## BOGEN

... *awarded Highest  
International Honors!*

Bogen amplifiers received  
the Gold Medal Award  
for excellence of design  
at the Triennale Exhibition  
in Milan, the world's most important  
international exhibit  
of industrial design.





## BOGEN FLEX-PAK® PA AMPLIFIERS

MTX30 PROFESSIONAL/DELUXE

ALL-TRANSISTOR 30-watt PA AMPLIFIER

MTX30 shown with MMS-1\*

### Features:

- All-transistor; designed for continuous operation at full output.  $-30^{\circ}\text{C. to } +65^{\circ}\text{C. (149}^{\circ}\text{F.)}$  optimum performance assured at extreme temperatures
- Excellent power curve, frequency response — low distortion. Response to 15 cps; Full output from 30 to 20,000 cps
- Low power consumption — reduced heat
- Total of 13 inputs; 6 of which may be mixed and faded simultaneously
- Each of 6 input channels can be provided with remote volume or precedence control
- Each of 6 input channels has individual speech filter switch
- Calibrated low frequency cut-off filter control shapes response of speech filter
- Inputs for 6 mics, 1-600 ohm balanced line, 2-magnetic phono cartridges, 2-tape playback heads, 2-auxiliary (high-impedance, high-level) signals, 2-bridging
- 32 transistors (uses 28 silicon transistors), 2 silicon diodes eliminate recurrent tube failures
- Four mic. inputs convert to low impedance with new, low hum plug-in transformers (T200, T500, T50)
- Outputs include tape, booster amplifier drive, balanced 25 volt and 70 volt, 4, 8, and 16 ohms
- Easy to locate and service printed board modular components
- Optional monitor speaker, output meter, locking plate, remote and precedence control, rack panel (see pages 6 and 7)
- Emergency operation from 12-15 VDC power source

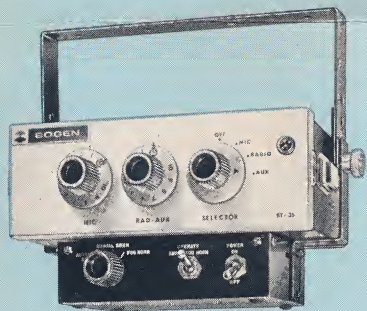
### SPECIFICATIONS

**Power Output:** 30 watts at 2% (delivers full power from 30-20,000 cps)  
**Peak Power:** 50 watts  
**Power Consumption:** 60 watts: (105-125 VAC, 50-60 cps or 12-15 VDC)  
**Frequency Response:** 20-25,000 cps  $\pm 1$  db  
**Output Impedance:** 4, 8, 16 ohms; tape and booster jacks, 25 V. balanced (21 ohms), 70 V. balanced (163 ohms)  
**Gain:** Microphone, 125 db.; Magnetic, 120 db.; Auxiliary, 95 db.  
**Hum and Noise:** (below rated output) Microphone, —70 db.; Magnetic, —65 db.; Auxiliary, —85 db.  
**Sensitivity:** Microphone, 2 MV (high impedance); Magnetic, 3 MV; Auxiliary, 0.3 volts  
**Inputs:** (13): 4 mic. (convert to low impedance with T200, T500 or T50 transformer); 2 mic. (high impedance); 2 mag. phono or tape playback heads; 2 aux. (high impedance, high level); 1 600-ohm balanced telephone line; 2 bridging. Note: 4 mics. and any two of the other nine inputs may be simultaneously mixed and faded  
**Controls:** 4 individual mic. controls (each with speech filter or wide-range switch)  
 • 1 high impedance mic./mag. phono/tape head/aux.-fader control with speech filter switch • 1 high impedance mic./mag. phono/tape head/aux.-600 ohm line fader control with speech filter switch • master volume • bass • treble • power switch • calibrated low frequency filter control (variable) determines low frequency cut-off of any of 6 inputs • (provision for remote control or precedence of all six inputs and master volume)  
**Tone Control Action:** treble: (10 kc) +12 db. to —14 db.; bass: (50 cps) +15 db. to —9 db.  
**Transistors:** 32 transistors; 2 silicon diodes  
**Overall Dimensions:** 16½" W, 12" D, 4¾" H  
**Shipping Weight:** 24 lbs.  
**MTX30 . . . List:** \$374.35 (Zone 2: \$378.85)

see accessories listed on pages 6 and 7

\*MMS-1: monitor meter and speaker — allows operator to check sound levels both by ear and by eye.

## MOBILE AMPLIFIERS



BT 35 shown with SF-1



### BT35; 35-watt/ARISTOCRAT OF COMPACT, TRANSISTOR MOBILE PA AMPLIFIERS

55-watts when used as electronic siren

Excellent for police, fire, CD and boats; radio receiver connects easily to aux. input. Splashproof-gasket seals chassis in cabinet. Temperature range  $-20^{\circ}\text{C. to } +65^{\circ}\text{C. (149}^{\circ}\text{F.)}$ . Polarity protection. Accessory siren tone-fog horn generator. Adjustable fixed-lock bracket. Built-in RF/line filters.

### SPECIFICATIONS

**Power Output:** 35 watts @ less than 10% (continuous); 55 watts with siren generator  
**Peak Power:** 55 watts  
**Power Consumption:** Full power: 4 amps; Quiescent: 0.6 amps 12-15 VDC  
**Frequency Response:** 150-15,000 cps  $\pm 3$  db.  
**Inputs:** 1 mic. (low impedance) • 1 aux. #1 (high level) tuner/tape/phono, 1 aux. #2 (high level) accessory (tone signal)  
**Gain:** microphone, 110 db.; auxiliary, 90 db.

**Hum and Noise:** microphone, —90 db. (below rated output); aux., —95 db. (below rated output)  
**Sensitivity:** mic.: 1 MV; aux.: 0.4 volts  
**Output Impedance:** 4, 8, 16 ohms (output socket for accessory siren/fog horn generator)  
**Controls:** 1 mic. • 1 aux. volume • 1 selector switch/power (4 positions); power off, mic., radio, Aux.  
**Transistors:** 5 transistors — 1 silicon diode: 2 — 2N2431, 1 — 2N555, 2 — 2N1557, 1 — silicon diode  
**Dimensions:** 8" W, 6¼" D, 3" H  
**Shipping Weight:** 8 lbs. List Price: \$132.40 (Zone 2: \$133.35)

**SF-1 SIREN/FOG HORN GENERATOR.** All-silicon transistor, easily attaches to dashboard or bottom of BT35. Furnished with 6 ft. cable and plug for attaching to BT35. Provision for remote/accessory foot switch for generator activation. Siren may be operated automatically or manually. List Price: \$91.20 (Zone 2: \$91.60)

### BT20; 20-watt TRANSISTOR MOBILE PA AMPLIFIER

Economy package for general PA, fire, police and CD. Operates within  $-20^{\circ}\text{C. to } +65^{\circ}\text{C.}$

### SPECIFICATIONS

**Power Output:** 20 watts @ less than 10% (continuous)  
**Power Consumption:** Full power: 3.8 amps; Quiescent: 0.8 amps; 12-15 VDC  
**Frequency Response:** 250 — 12,000 cps  $\pm 3$  db.  
**Inputs:** 1 mic. (low impedance) • 1 aux. (tuner, tape, phono)  
**Gain:** mic., 110 db.; aux., 90 db.  
**Hum and Noise:** mic. —90 db. (below rated output); aux.

—95 db. (below rated output)  
**Sensitivity:** mic., 1 MV; aux., 0.4 volts  
**Output Impedance:** 4, 8, 16 ohms  
**Controls:** 1 mic.; 1 aux./power  
**Transistors:** (5): 2 — 2N2431, 1 — 2N555, 2 — 2N669  
**Dimensions:** 4½" W, 4½" D, 6½" H  
**Shipping Weight:** 5 lbs.  
**List Price:** \$99.90 (Zone 2: \$100.85) . .

BOGEN SOUND SYSTEMS





### MX60 DELUXE 60-WATT PA AMPLIFIER

— with master gain control...built-in remote gain-control circuit... four microphone channels (one converts to phono)...exclusive variable level markers.

#### SPECIFICATIONS

**Power Output:** 60 watts at less than 2% distortion.  
**Power Consumption:** 270 watts.  
**Frequency Response:**  $\pm 2$  db, 35 to 20,000 cycles.  
**Gain:** Microphone: 125 db; tuner: 85 db; magnetic phono: 115 db.  
**Hum:** (below rated output): microphone: -60 db.  
**Output Impedance:** 4, 8, 16 and 83 ohms, balanced 25-volt line, 70-volt line.  
**Tubes:** Total of ten. 3-GZ34, 2-7581A, 4-12AX7, 1-7247.  
**Tone Controls:** Treble (10 kc): +10 db to -10 db; bass (50 c): +10 db to -10 db.  
**Overall Dimensions:** 16 $\frac{1}{4}$ " wide, 13" deep, 5 $\frac{3}{8}$ " high.  
**Shipping Weight:** 37 lbs. MX60.. List: \$295.00 (Zone 2: \$300.25)

### MX30 DELUXE 30-WATT PA AMPLIFIER

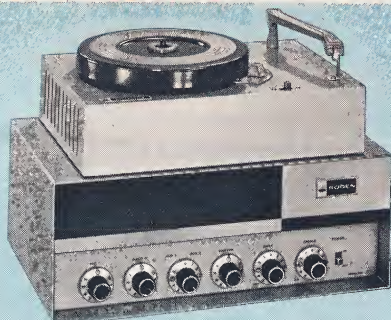
— with master gain control...built-in remote gain-control circuit... four microphone channels (one converts to phono)...exclusive variable level markers.

#### SPECIFICATIONS

**Power Output:** 30 watts at less than 2% distortion.  
**Power Consumption:** 150 watts.  
**Frequency Response:**  $\pm 2$  db, 35 to 20,000 cycles.  
**Gain:** Microphone: 120 db; tuner: 80 db; crystal phono: 80 db; magnetic phono: 115 db.  
**Hum:** (below rated output): microphone: -60 db.  
**Output Impedance:** 4, 8, 16 and 163 ohms, balanced 25-volt line, 70-volt line.  
**Tubes:** Total of eight. 1-GZ34, 2-6L6GC, 4-12AX7, 1-7247.  
**Tone Controls:** Treble (10 kc): +10 db to -10 db; bass (60 c): +10 db to -10 db.  
**Overall Dimensions:** 16 $\frac{1}{4}$ " wide, 13" deep, 5 $\frac{3}{8}$ " high.  
**Shipping Weight:** 31 lbs. MX30.. List: \$231.25 (Zone 2: \$235.75)

### MU1250 TRANSISTOR MOBILE PA AMPLIFIER

(Universal —  
 12 VDC or 117 VAC;  
 shown with LPD-3 phono-top)



—operates within a temperature range of -20°C. to +65°C.; 2 mic. inputs (high or low impedance — no transformer required), 1 mag. phono or tape playback head input, 2 aux. inputs; separate bass, treble, master-volume controls; AC & DC power cables and back cover included.

#### SPECIFICATIONS

**Power Output:** 50 watts at 10% (continuous)  
**Peak Power:** 70 watts  
**Power Consumption:** Full power: 116 watt (117-volt AC), 6.7 amps. (12-volt DC).  
 Quiescent: 16 watt (117 VAC), .3 amp. (12-volt DC)  
**Frequency Response:** 30 to 15,000 cps.  $\pm 2$  db.  
**Gain:** Microphone, 125 db; Auxiliary, 95 db.  
**Hum and Noise:** (Below rated output) Microphone, -65 db; Auxiliary, -70 db.  
**Output Impedance:** 4, 8, and 16 ohms; 25-volt balanced line, 70-volt (122 ohms) balanced  
**Transistors and Silicon Rectifiers:** Total of 14 (2-2N3053, 7-2N2712, 2-2N1557, 3-MR322)  
**Overall Dimensions:** 15 $\frac{3}{4}$ " W, 10" D, 6 $\frac{3}{4}$ " H.  
**Shipping Weight:** 14 lbs. MU1250 . . . List: \$237.50 (Zone 2: \$239.65)

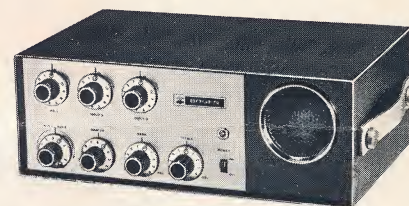
## Features:

MX 60 - MX 30

- Master gain control.
- Built-in Remote Gain-Control Circuit allows changes in gain from distances up to 2,000 feet.
- Constant voltage output taps simplify calculations for speaker matching transformers.
- Power stage screen regulation for higher output, greater efficiency.
- Special filters to improve speech clarity.
- Equalized phono input for all cartridges.
- Separate bass and treble controls.
- Quick maintenance; four thumbscrews remove cage, no tools needed.
- Plug-ins for low impedance transformers.
- Broadcast-type (Cannon XL Series) microphone connectors. Pencil-in, erase-out identification strips for all channels. Sturdy leather carrying handles.
- Variable level markers permit resetting of controls to previously determined levels.
- A host of accessories for completely flexible operation (see page 6).
- Handsome, compact design, finished in silver, gray, and black.



### M330A 30-watt PA AMPLIFIER



U.L. Applied for

3 microphone channels (2 convert to magnetic cartridge); 2 auxiliary inputs; separate master gain, bass, treble controls; built-in remote gain control circuit; sockets for low impedance transformers (T500, T200, T50); memory markers for resetting controls; 70 v. and 25 v. output taps; see accessories page 6, 7.

#### SPECIFICATIONS

**Power Output:** 30 watts at 2%  
**Peak Power:** 50 watts  
**Power Consumption:** 120 watts (105-125 VAC, 50-60 cps)  
**Frequency Response:** 20-20,000 cps  $\pm 2$  db  
**Output Impedance:** 4, 8, 16 ohms; 25 v. balanced (16 ohms), 70 v. (163 ohms)  
**Gain:** Mic: 120 db; Aux: 95 db; Mag: 105 db  
**Hum and Noise:** (below rated output) Mic: 65 db; Aux: 80 db  
**Tone Control Action:** treble (10 KC) +10.5 db to -14.5 db; bass (50 cps) +13.5 db to -9 db  
**Tubes:** Total of 5: 2-7868, 1-7247, 2-6EU7, 2-silicon rectifiers, 1-silicon diode  
**Overall Dimensions:** 14-7/8" wide, 9-7/8" deep, 5-3/4" high  
**Shipping Weight:** 20 lbs.  
 M330A . . . List: \$188.75 (Zone 2: \$191.75)



## A Bogen Public Address Amplifier to fit every Need...any Budget

### BOGEN MU SERIES UTILITY PA AMPLIFIERS

Handsomely styled and popularly priced PA amplifiers offer: up to 3 microphone inputs, a variety of auxiliary inputs, individual and master volume controls, separate bass and treble controls, sockets for low-impedance transformers, remote control provision, Memory Markers for resetting controls to previously determined levels, constant voltage output taps, and many more features as outlined below.



MU70 shown with phono-top.

Matching phono-tops are available for the MU Series Amplifiers. Refer to pages 6 and 7 for specific information; also remote control units, carrying cases, rack panels, low-impedance mic. transformers, etc.

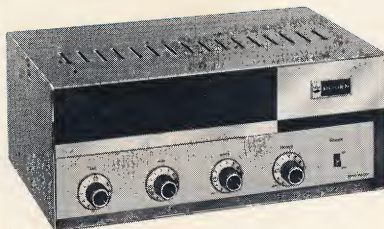
#### MU70 UTILITY 70-WATT AMPLIFIER

— separate bass, treble, master-volume controls; constant output taps; 3 plug-in low-impedance transformer sockets; 3 mic. channels (2 convert to mag. phono or tape inputs), 1 aux. channel (2 inputs/fader control). Provision for remote control of 3 inputs.

##### SPECIFICATIONS

Power Output: 70 watts at less than 2% distortion  
Peak Power: 140 watts  
Power Consumption: 300 watts (105-125 VAC, 50-60 cps)  
Frequency Response: 20 — 20,000 cps  $\pm$  2 db.  
Gain: Microphone, 120 db.; Auxiliary, 95 db.; Mag. phono, 110 db.  
Hum and Noise: (below rated output) Microphone,

—65 db.; Auxiliary, —85 db.; Mag. phono, —60 db.  
Output Impedance: 2, 4, 8, and 16 ohms; 25-volt balanced (9 ohms), 70-volt (71 ohms)  
Tubes: Total of 7 plus silicon rectifier (2 — 6EU7, 1 — 7247, 4 — 7868)  
Overall Dimensions: 15 $\frac{3}{4}$ " W, 10" D, 6 $\frac{3}{4}$ " H  
Shipping Weight: 27 lbs.  
MU70 . . . List: \$224.60 (Zone 2: \$228.60)



U.L. Applied for

#### MU130 UTILITY 30-WATT AMPLIFIER

—separate bass, treble, master-volume controls; constant output taps; 1 plug-in low-impedance transformer socket; 1 mic. channel, 1 aux. channel. Provision for remote control of 1 mic.

##### SPECIFICATIONS

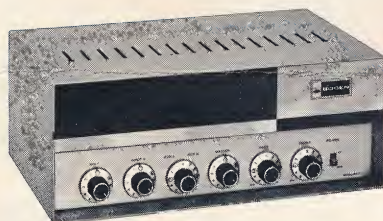
Power Output: 30 watts at 2% distortion.  
Peak Power: 50 watts.  
Power Consumption: 120 watt (105-125 VAC, 50-60 cps).

Frequency Response: 20 to 20,000 cps  $\pm$  2 db.  
Gain: Microphone, 122 db; Auxiliary, 95 db.

Hum and Noise: (Below rated output) Microphone, —65 db; Auxiliary, —80 db.  
MU130 . . . List: \$149.90 (Zone 2: \$152.90)

Output Impedance: 4, 8 and 16 ohms (16 ohm balanced); 25-volt balanced (use 16 ohm tap), 70-volt (163 ohms).  
Tubes: Total of 4 plus silicon rectifiers (1-6EU7, 1-7247, 2-7868).

Overall Dimensions: 15 $\frac{3}{4}$ " W, 10" D, 6 $\frac{3}{4}$ " H.  
Shipping Weight: 20 lbs.



#### MU15 UTILITY 15-WATT AMPLIFIER

—separate bass, treble, master-volume controls; constant output taps; 2 plug-in low-impedance transformer sockets; 2 mic. channels, 1 aux. channel (2 inputs/fader control). Provision for remote control of 2 mics.

##### SPECIFICATIONS

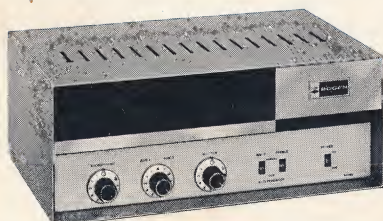
Power Output: 15 watts at 2% distortion.  
Peak Power: 25 watts.  
Power Consumption: 80 watt (105-125 VAC, 50-60 cps).  
Frequency Response: 20 to 20,000 cps  $\pm$  2 db.  
Gain: Microphone, 125 db; Auxiliary, 100 db.  
Hum and Noise: (Below rated output) Microphone, —60 db; Auxiliary, —80 db.

Output Impedance: 4, 8 and 16 ohms (16 ohm balanced); 25-volt balanced (42 ohms). 70-volt (326 ohms).

Tubes: Total of 6 (1-6EU7, 1-12AX7, 1-EZ81, 1-6C4, 2-7868).

Overall Dimensions: 15 $\frac{3}{4}$ " W, 10" D, 6 $\frac{3}{4}$ " H.

Shipping Weight: 16 lbs.  
MU15 . . . List: \$139.90 (Zone 2: \$143.05).



#### MU10 UTILITY 10-WATT AMPLIFIER

—separate bass & treble switches, master-volume control; constant output taps; plug-in low-impedance transformer socket; 1 mic. channel, 1 aux. channel (2 inputs/fader control). Provision for remote control of 1 mic.

##### SPECIFICATIONS

Power Output: 10 watts at less than 3% distortion.  
Peak Power: 15 watts.  
Power Consumption: 70 watt (105-125 VAC, 50-60 cps).  
Frequency Response: 20 to 20,000 cps  $\pm$  2 db.  
Gain: Microphone, 125 db; Auxiliary, 100 db.  
Hum and Noise: (Below rated output) Microphone, —60 db; Auxiliary, —80 db.

Output Impedance: 4, 8 and 16 ohms; 25-volt balanced (62 ohms), 70-volt (500 ohms).

Tubes: Total of 4 (1-6EU7, 2-ECL86, 1-6V4).

Overall Dimensions: 15 $\frac{3}{4}$ " W, 10" D, 6 $\frac{3}{4}$ " H.

Shipping Weight: 15 lbs.

MU10 . . . List: \$97.40 (Zone 2: \$99.65).



## BOGEN PREAMPLIFIERS AND BOOSTER AMPLIFIERS



**Higher gain—  
outstanding sensitivity—  
excellent signal-to-noise ratio—  
high output at low distortion—  
extremely low hum level.**



### MXM MIXER-PREAMPLIFIER

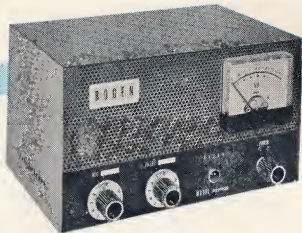
The MXM is self-powered, accommodates five microphones, or four microphones and a tuner or phonograph (both crystal and magnetic cartridges). Each channel is regulated by a separate gain control (a master gain control is also provided). Features: individual speech filters for each channel, output level meter, sockets for plug-in, low-impedance transformers, feedback-type, distortion-free tone controls, and new variable level markers which permit instant resetting of controls to previously determined levels. May be remote controlled with SR2 and SR4 remote controllers . . . see page 6.

#### SPECIFICATIONS

**Output:** +18 dbm at less than 1% distortion.  
**Power Consumption:** 27 watts.  
**Frequency Response:**  $\pm 2$  db, 20 to 20,000 cycles.  
**Input Sensitivity:** High imp.: 4 mv. Low imp.: 0.4 mv. MAG: 4 mv; XTAL: 0.2v; AUX: 0.5v.  
**Hum:** (below rated output): microphone: -60 db.  
**Tubes:** Total 9. 4-EF86, 2-12AX7, 1-6CG7, 1-6BF6, 1-6X4.

**Output Impedance:** High imp.: (cathode follower): 600 ohms with T161 or T165B (broadcast quality) accessory plug-in transformers.  
**Tone Controls:** Treble (10 kc): +12 db to -12 db; bass (60c): +12 db to -12 db.  
**Overall Dimensions:** 16 $\frac{1}{4}$ " wide, 13" deep, 5 $\frac{3}{8}$ " high.  
**Shipping Weight:** 21 lbs.

MXM . . . List: \$246.25 (Zone 2: \$250.00)



### RP-2 . . . LOW-NOISE PROGRAM PREAMPLIFIER

Designed for use at remote pickup points. Contains separate input channels for one microphone and one phonograph. Separate volume controls for each channel permit mixing of inputs. The output is designed to feed either a booster amplifier or a low impedance line separately or simultaneously. A bass cut-off switch provides speech clarity. Enclosure with VU meter (as illustrated) is available.

#### SPECIFICATIONS

**Power Consumption:** 20 watts, 117 volts ac, 60 cps.  
**Gain:** Microphone: 76 db, phono: 35 db.  
**Sensitivity:** Microphone: 3.5 mv., phono: 0.4 v.  
**Bass Cut:** 20 db.

**Input Impedance:** High impedance: 1/2 megohm, convertible to low impedance by use of plug-in transformers for 50, 150-250 or 600 ohms.  
**lower driven:** minimum recommended load resistance—10,000 ohms. Low impedance: 600 ohms (50 and 200 ohms).

**Pilot Light:** #47

**Tubes:** Total 4. 2-6SF5, 1-6J5, 1-6X5GT.

**Dimensions:** 11" w. x 5 $\frac{1}{4}$ " h. x 7 $\frac{3}{8}$ " d. (excluding knobs). With cage, height is 6 $\frac{1}{2}$ "

**Weight:** 7 lbs.

**Output Impedance:** High impedance: cathode follower.  
RP-2 (cage CAGVU2 optional extra) . . . List: \$95.00 (Zone 2: \$96.35) CAGVU2 cage with meter . . . List: \$38.75 (Zone 2: \$39.50)

### BOOSTER AMPLIFIERS

Bogen's booster amplifiers embody the most advanced developments in design and techniques of construction. They are ideal for sound systems in industrial plants, airports, stadia, shipyards . . . wherever undistorted high power is required. Note their exceptionally wide-range frequency response characteristics. The Bogen MXM and RP-2, described above, are ideal preamplifiers for these boosters. Built-in provision permits paralleling several power amplifiers to multiply power output.



#### MO100A

MT30, MO100A

**100-watt Booster Amplifier** . . . provision for balanced low impedance line input and for remote control of stand-by operation.  
**INDUSTRIAL RATING:** can be used as 100-watt source of continuous power between 30 and 30,000 cps. U.L. Applied for.

#### SPECIFICATIONS

**Power Output:** 100 watts at less than 2% distortion  
**Power Consumption:** 250 watts  
**Frequency Response:**  $\pm 1$  db, 8 to 50,000 cps  
**Input:** High impedance: 0.5 megohms. Low impedance: 500 ohms with T161 transformer  
**Sensitivity:** High impedance: better than 2 v.; Low impedance: with T161 transformer, better than 0.5 v.  
**Hum:** 80 db below rated output  
**Output Impedance:** 16 ohms balanced, 25 v. C.T. balanced (6.25 ohms), 70 v. C.T. balanced (49 ohms) and 115 v. output (for industrial applications)  
**Tubes:** 7247, 8417 (4), 3 silicon rectifiers  
**Overall Dimensions:** 8" W, 13" D, 6-3/4" H  
**Shipping Weight:** 29 lbs.  
MO100A . . . List: \$227.40 (Zone 2: \$232.65)

#### MO60

**60-watt Booster Amplifier** . . . provision for balanced low impedance line input . . . provision for remote control of stand-by operation.

#### SPECIFICATIONS

**Power Output:** 60 watts at less than 2% distortion.  
**Power Consumption:** 260 watts.  
**Frequency Response:**  $\pm 2$  db, 35 to 20,000 cycles.  
**Input:** (1) high impedance: 1 megohm. With low impedance transformer (T161): 500 ohms.  
**Sensitivity:** High impedance: 2 volts; low impedance (with T161 transformer): 0.5 volts.  
**Hum:** (below rated output): -80 db.  
**Output Impedance:** 4, 8, 16 and 82 ohms, balanced 25-volt line, 70-volt line.  
**Tubes:** Total 7. 3-GZ34, 2-7581A, 1-12AX7, 1-6C4  
**Overall Dimensions:** 17 $\frac{1}{4}$ " w., 6 $\frac{1}{2}$ " d., 7 $\frac{3}{4}$ " h.  
**Shipping Weight:** 23 lbs.  
MO60 . . . List: \$172.50 (Zone 2: \$176.25)

#### MO30

**30-watt Booster Amplifier** . . . using five tubes, 30 watts at less than 2% distortion.

#### SPECIFICATIONS

Same as MO60 with these changes:  
**Power Output:** 30 watts @ less than 2% distortion  
**Power Consumption:** 150 watts

**Output Impedance:** 4, 8, 16 ohms, balanced 25-volt line (21 ohms) 70-volt line (163 ohms)  
**Tubes:** Total 5 (1 — GZ34, 2 — 6L6GC, 1 — 12AX7, 1 — 6C4)  
**Shipping Weight:** 21 lbs.  
MO30 . . . List: \$124.90 (Zone 2: \$128.05)

#### MT30

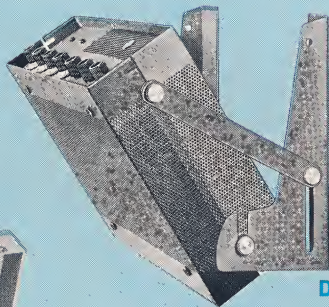
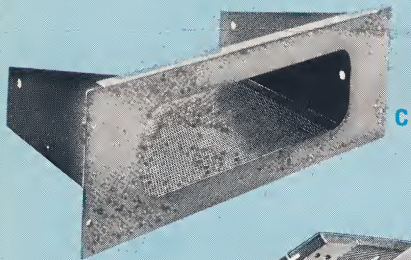
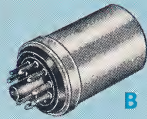
**30-watt Transistorized Booster Amplifier** . . . provisions for remote volume or stand-by control. See page 6.

#### SPECIFICATIONS

**Power Output:** 30 watts @ less than 1% distortion (delivers full power from 30-20,000 cps)  
**Power Consumption:** 60 watts (117 VAC or 12-15 VDC)  
**Frequency Response:** 20 — 25,000 cps  $\pm 1$  db.  
**Input:** (1) high impedance convertible to low impedance with TL600, TL600B, TL10K line transformers  
**Sensitivity:** High impedance: 1 volt, .25 volt (with TL600 transformer)  
**Hum:** (below rated output): -85 db.  
**Output Impedance:** 4, 8, 16 ohms, 25-volt balanced (21 ohms), 70-volt balanced (163 ohms)  
**Transistors:** (6) transistors, 2 silicon diodes  
**Overall Dimensions:** 8" W, 13" D, 5" H  
**Shipping Weight:** 19 lbs.  
MT30 . . . List: \$173.15 (Zone 2: \$176.35)



## BOGEN ACCESSORIES FOR PA AMPLIFIERS



**(A) REMOTE CONTROLLERS**—one, two and four-channel remote control units permit mixing, fading, and frequent changes in gain of individual channels, even from distances up to 2,000 feet.

Amplifier Model	Remote Controller	List Prices	
		Zone 1	Zone 2
MU70, M330A, MU130, MU15, MU10, MX60, MX30, MXM	SR2 (two channel)	13.75	14.05
MU70, M330A, MX60, MX30, MXM	SR4 (four channel)	19.90	20.35
MTX30	LDA-1*	13.75	13.90
	RVC-1**	12.25	12.40
MT30	LDA-1†	13.75	13.90
	RVC-1**	12.25	12.40
MX30, MX60, MU70, MU130, M330A, MU15, MU10	MPC-1*** (priority control & compressor)	62.40	62.55

\*provides channel muting for precedence.

\*\*provides remote vol. control with LDA-1.

†for MT30, provides standby.

\*\*\*provides precedence over second music and mic. channel.

**(B) PLUG-IN TRANSFORMERS**—Microphone and line transformers designed for plug-in use with Bogen amplifiers.

Model Number	Ohms	List Prices	
		Zone 1	Zone 2
T155	200 (mic.)	\$15.65	\$17.35
T156	500 (mic.)	21.25	21.40
T157	50 (mic.)	18.75	18.90
T161	500 (line)	16.25	16.40
T165B	500 (line)	20.00	20.15
Broadcast Type			
T200	200 (mic.)	18.75	18.90

Model Number	Ohms	List Prices	
		Zone 1	Zone 2
T500	500 (mic.)	22.50	22.65
T50	50 (mic.)	20.00	20.15
WMT-1	600 (line)	15.65	15.75

**(C) RACK PANEL MOUNTING KITS**—Available for all Bogen amplifiers and tuners. Finished in grey metallustre.

Equipment	Rack Panel	Sizes	List Prices	
			Zone 1	Zone 2
RP-2	RPK-1	19" x 7"	\$17.40	\$18.30
MX60, MX30, MXM	RPK-4	19" x 7"	21.90	23.10
MO60, MO30	RPK-5	19" x 8 3/4"	16.25	17.30
MU10	RPK-13	19" x 7"	27.50	28.30
MU1250, MU70, MU15	RPK-14	19" x 7"	27.50	28.30
MTX30	RPK-16	19" x 7"	31.90	33.10
MT30, MO100A	RPK-18	19" x 7"	27.50	28.70
MU130	RPK-19	19" x 7"	37.40	38.90
M330A	RPK-21	19" x 7"	37.40	38.90

**(D) WALL-MOUNTING KIT**—Keep your equipment ready when you need it, yet safely, neatly out of the way when not in use. Bogen LWM wall-mounting kit can be used with deluxe MX amplifiers and the MXM preamplifier. You can set your equipment flat against the wall when idle or at an angle for operation. List Price \$18.75 (Zone 2: \$19.20).

**(E) VARIABLE SPEED TRANSCRIPTION PLAYER FOR ALL PA AMPLIFIERS**—Model 1004 A, deluxe high-fidelity unit in a sturdy, easy-to-carry, covered wood case. Features continuously variable speed control from 29 to 86 rpm, plus click stops at the four popular speeds. List Price: \$97.50 (Zone 2: \$101.40)

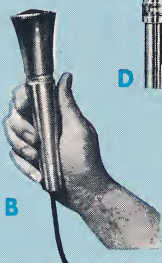
## BOGEN MICROPHONES



C



A



D



E

**(A) Bogen-Shure 55S Cardioid**—Widely used uni-directional, general purpose, dynamic microphone. Has 3-position impedance switch (50, 200, high); 18-ft. 2-conductor shielded cable. 50-15,000 cps. "Positive action" swivel. **Model 55S...List: \$83.00**

**(B) Bogen-Shure 430 Controlled Magnetic**—General purpose omni-directional microphone. Easily changes from high to low impedance. Has press-to-talk switch (normally closed); 60-10,000 cps; 15-ft. 2-conductor cable; swivel adapter. Use in hand or on floor or table stand. **Model 430...List: \$38.50**

**(C) Bogen-Shure 420 Lavalier Type**—Similar to Model 430 but with lavalier cord and clip assembly. Readily detachable, can be hand held. No press-to-talk switch or swivel adapter. Complete with 20-ft. 2-conductor cable. Easy built-in facility for high to low impedance change. **Model 420...List: \$30.00**

**(D) Bogen-Shure 51 Semi-Directional Dynamic**—For general purpose PA and recording use. 3-position impedance switch (50, 200, high); 60-10,000 cps; 15-ft. 2-conductor shielded cable. Lifetime 90° swivel. **Model 51...List: \$49.50**

**(E) Bogen-Electro-Voice 727 Omni-Directional Ceramic**—For hand use or mounts in own slip-in stand. High impedance, 60-8,000 cps. With 5-ft. single-conductor shielded cable. Fine for general use. **Model 727...List: \$22.50**

**(F) Bogen-Electro-Voice 630 Omni-Directional Dynamic**—Widely used general purpose microphone. Tilts in 90° arc. 60-11,000 cps; on-off switch. Specify 250 ohms or high impedance. 16-ft. shielded cable. **Model 630...List: \$52.50**



## —unmatched in Versatility and Flexibility

**(F) MX AND MU SERIES MANUAL PHONO-TOPS**—All phono-tops come complete with all necessary hardware, tone arm and turn-over cartridge. The -3 indicates 3-speed, the -4 indicates 4-speed.

Amplifier	Phono-top	List Prices	
		Zone 1	Zone 2
MX60, MX30, MXM	LPB-3	\$49.90	\$50.80
MU70, M330A, MU15, MU10, MU130	LPC-4	37.75	38.80
MU1250	LPD-3	49.00	50.05

**(G) CARRYING CASES AND SPEAKERS**—carrying cases for portable systems are available with or without speakers. With speakers installed, each half of the split case acts as a baffle. Cases with speakers (2-12" ceramic magnet speakers) include 25' cable and plugs.

Amplifier	Case with Speakers	List Prices		Case Only	List Prices	
		Zone 1	Zone 2		Zone 1	Zone 2
MU1250, MU70, MU130, MU15, MU10	PC12S	\$86.85	\$90.30	PC12	\$42.40	\$45.40

Note: Size—PC12S and PC12, 17 $\frac{3}{4}$ " x 23 $\frac{3}{4}$ " x 12"

**(H) STANDBY CONTROLLER**—Lengthens amplifier life, reduces high voltage power consumption.

Amplifier	Standby Controller	List Prices	
		Zone 1	Zone 2
MO100A, MO60	KR6	\$40.00	\$40.45
MT30	LDA-1	13.75	13.90

**MICROPHONE CONNECTOR**—Model CON-1, for all Bogen amplifiers except MU1250, BT35, BT20 (CON-1 similar to XL3-11). List Price: \$1.98 (MC1F is used with MU1250, BT35, BT20)

**(K) CONTROL-GUARD LOCKING PLATE**—Tampering fingers will never disturb pre-set controls when protected by a unique Bogen Control-Guard Locking Plate.

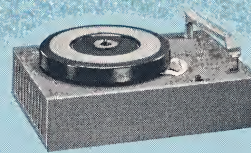
Amplifier	Locking Plate	List Prices	
		Zone 1	Zone 2
MX60, MX30, MXM	LK-2	\$13.75	\$14.05
	LK-4*	17.40	17.85
MU1250, MU70, MU130, MU15, MU10	LK-5	9.90	10.10
MTX30	LK-6	17.25	17.70
M330A	LK-8	13.75	14.10

\*when using LWM-wall mounting

**(L) TP100-CAG HIGH FIDELITY FM/AM MONOPHONIC TUNER**—Highly sensitive FM circuit — 2uv, 20 db. quieting; 5uv on AM. Automatic frequency control circuitry prevents drifting on the FM band. Tuner has built-in FM line antenna. Available with enclosure or 19" x 7" rack panel.

TP100-CAG — tuner with enclosure. List: \$222.40 (Zone 2: \$224.65)

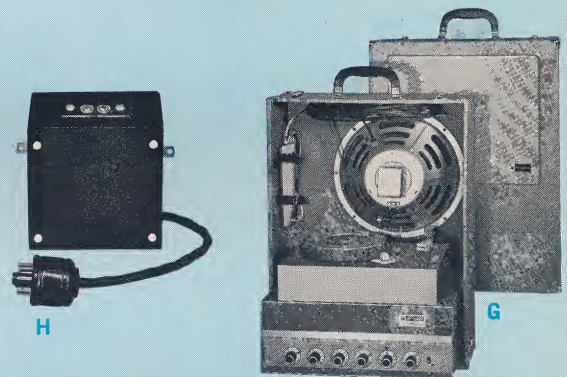
TP100-RPK — tuner on 19" panel. List: \$208.00 (Zone 2: \$210.40)



for MU series,  
M330A



for MX series

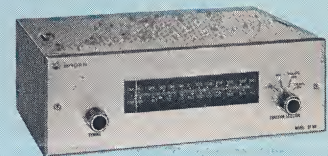


H

G



K



L

**(G) Bogen-Electro-Voice 636 Omni-Directional Dynamic**—Slim-look design for all public address installations. 60-15,000 cps; 150 ohms and high impedance selection; on-off switch; 16-ft. 2-conductor shielded cable.

Model 636..List: \$72.50

**(H) Bogen MSE High and Low Impedance (200 ohms) Dynamic**—Ideal for paging applications. 50-12,000 cps; momentary announce switch for line muting, relay operation; heavy cast base with 13" flexible gooseneck section. With connectors.

Model MSE..List: \$83.75 (Zone 2: \$85.25)

**(J) Bogen DS3 Desk Stand**—Heavy-duty microphone stand. Stands 6 $\frac{1}{2}$  inches high overall. Chrome and gray finished.

Model DS3..List: \$3.50 (Zone 2: \$3.50)

**(K) Bogen H10 Floor Stand**—Sturdy 10" diameter gray wrinkle base; adjustable from 35" to 63" Heavy brass tubing, finished in polished chrome.

Model H10..List: \$12.50 (Zone 2: \$14.90)

**Bogen 1048 Single Conductor Cable**—Heavy duty shielded microphone cable for high impedance lines. Stranded copper conductor with solid rubber filler, rubber shield.

Model 1048 Cable (per 100 feet)..List: \$11.50 (Zone 2: \$12.25)

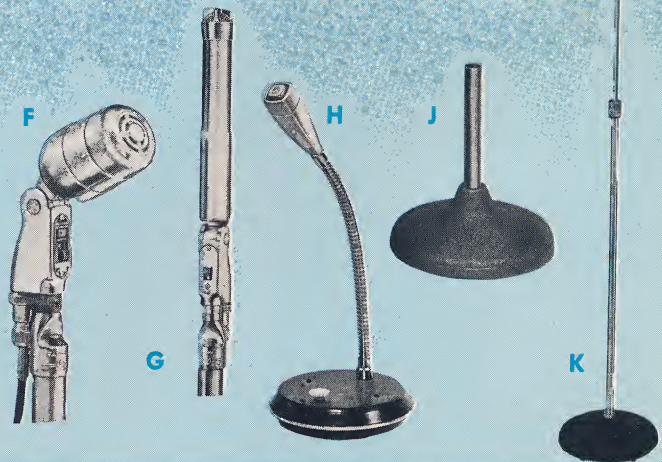
**Bogen 1008 Two Conductor Cable**—Heavy duty two conductor shielded No. 18 microphone cable for low impedance lines. Stranded copper conductors with shield and heavy rubber overall.

Model 1008 Cable (per 100 feet)..List: \$17.25 (Zone 2: \$18.30)

**CON-1 Microphone Connector**—For all Bogen PA amplifiers.

Model CON-1 Connector..List: \$1.98

For Bogen Microphone Transformers, see top of opposite page.



F

H

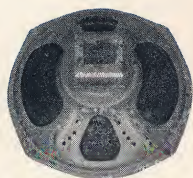
J

G

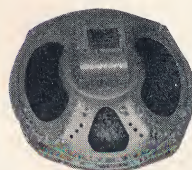
K



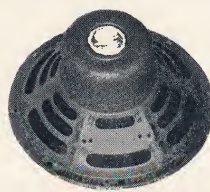
## BOGEN CONE TYPE PERMANENT MAGNET LOUDSPEAKERS



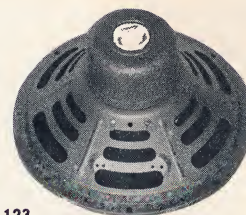
L112



L119



L121



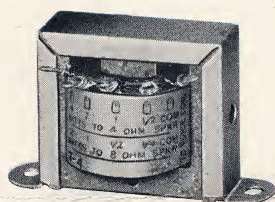
L123



L115A

MODEL	L115A	L112	L119	L121	L123
Cone Diameter	6"	8"	8"	10"	12"
Magnet Wt.	1.00 oz.	2.15 oz.	4.64 oz.	4.64 oz.	4.64 oz.
Voice Coil Diam.	7/16"	3/4"	1"	1"	1"
Voice Coil Impedance	3.2 ohms	8 ohms	8 ohms	8 ohms	8 ohms
Frequency Response	80-10,000 cps	60-12,000 cps	45-15,000 cps	45-15,000 cps	50-15,000 cps
Axial Sensitivity*	90 db	92 db	96 db	95 db	95 db
Power	4 watts	8 watts	12 watts	12 watts	14 watts
List Price	\$4.80	\$6.90	\$10.80	12.10	\$13.50
Zone 2	5.20	7.40	11.35	12.70	14.15

\*At 4 ft. with 1 watt input



## TAPPED SPEAKER LINE MATCHING TRANSFORMERS

### CONSTANT VOLTAGE TRANSFORMERS

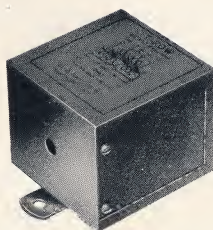
MODEL	LINE VOLTAGE	TAPS (watts)	VOICE COIL TAPS (ohms)	CORE SIZE	LIST PRICE	
					Zone 1	Zone 2
T4	70 volts	4,2,1,1/2 2,1,1/2,1/4	4 8	5/8" x 5/8"	\$3.75	\$3.90
T16	70 volts	16,8,4 16,8,4,2	4 8	7/8" x 7/8"	5.60	5.90
TS-2	25 volts	2,1,1/2	8	5/8" x 5/8"	3.40	3.60
TS-05	25 volts	1/2	8	1/2" x 1/2"	2.75	2.90
TS-16	25 volts	16,8,4 16,8,4,2	8 16	7/8" x 7/8"	7.50	7.80

### WEATHERPROOF CONSTANT VOLTAGE TRANSFORMERS

MODEL	LINE VOLTAGE	TAPS (watts)	VOICE COIL TAPS (ohms)	CORE SIZE	LIST PRICE	
					Zone 1	Zone 2
T20W	70 volts	20,10,5	16	7/8" x 7/8"	19.40	19.85
TS16W	25 volts	16,8,4 16,8,4,2	8 16	7/8" x 7/8"	18.75	19.20

### CONSTANT IMPEDANCE TRANSFORMERS

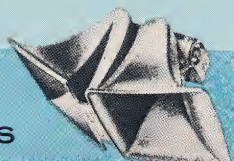
MODEL	WATTS	IMPEDANCE TAPS	CORE SIZE	LIST PRICE	
				Zone 1	Zone 2
T5A	20	500, 1000, 1500, 2000 ohms to 8 ohm voice coil	7/8" x 7/8"	\$6.75	\$7.05
T5B	12	500, 1000, 1500, 2000 ohms to 8 ohm voice coil	3/4" x 3/4"	4.85	5.15
T5C	6	500, 1000, 1500, 2000 ohms to 8 ohm voice coil	5/8" x 3/4"	3.75	4.05
T25C	6	2500, 3000, 3500, 4000 ohms to 8 ohm voice coil	5/8" x 3/4"	4.35	4.65
T45C	6	4500, 7000, 10,000, 14,000 ohms to 8 ohm voice coil	5/8" x 3/4"	7.50	7.80





## UNIVERSITY LOUDSPEAKERS

### WIDE ANGLE TRUMPETS



MODEL	COBREFLEX	CLH
Low Freq. Cut-Off	200 cps	120 cps
Sound Distribution	120° x 60°	120° x 60°
Air Column Length	2½ ft.	4½ ft.
Series Capacitor For Horn Cut-Off	16 mfd.	18 mfd.
Bell Mouth Size	18½" x 9¼"	21½" x 11½"
Depth (Less driver)	10¼"	20"
Shipping Weight	10¼ lbs.	15 lbs.
List Price	\$40.25	\$46.50



### HI-FI WEATHER-PROOF COAXIAL

Designed to simplify indoor and outdoor "high quality" sound installations. Wired and housed in compact dual horn projector. Dependable for fixed or portable use.

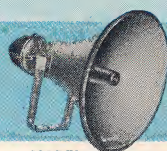
MODEL	MLC	CLC
Power Capacity (Cont. Duty)	15 watts	30 watts
Frequency Response	150-15,000 cps	55-14,000 cps
Impedance	8 ohms	8 ohms
Dispersion	120°	120°
Sound Pressure Level	117 db	108.3 db
Dimensions Diameter (overall)	12¾" W x 9½" H	22¾"
Depth (overall)	10½"	12-11/16"
Shipping Weight	10 lbs.	19½ lbs.
List Price	\$57.50	\$116.60

### CONVERTERS AND ADAPTERS



**2YC Connector**—Enables two driver units to be used on any single radial, directional or wide-angle trumpet. Use when unusually high input power is required in speech applications. Shipping Weight, 1 lb. List Price . . . \$13.20

**L30-1 Horn Stacking Kit.** L30-1 Kit —Clamps bell rims of 2 CLH wide angle trumpets together. Use one kit for every two horns. Shipping Weight, 6 oz. List Price . . . \$1.65



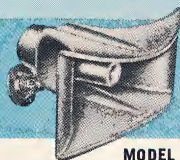
**REFLEX TRUMPETS.** The most efficient modern method of sound distribution. Provide more sound output for less amplifier power. Ruggedly constructed, weatherproof...install them and forget them.

MODEL	GH	LH	PH	SMH	RPH
Low Frequency Cut-Off	85 cps.	120 cps.	150 cps.	200 cps.	140 cps.
Sound Distribution	65°	75°	85°	95°	360°
Air Column Length	6½ ft.	4½ ft.	3½ ft.	2½ ft.	4 ft.
Bell Diameter	31"	25¾"	20¾"	16¼"	25½"
Horn Length	28"	19"	15¾"	12"	13¾"
Shipping Weight	22 lbs.	16½ lbs.	11¾ lbs.	8 lbs.	19 lbs.
List Price	\$75.60	\$46.73	\$34.13	\$28.88	\$47.00



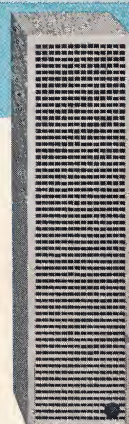
**DRIVERS.** W-shaped Alnico 5 magnet results in maximum efficiency by reducing reluctance losses and surface leakage. Built-in transformers for flexibility. Immune to shock and vibration.

MODEL	ID-20	ID-30	ID-40	ID-40T (with Transformer)	ID-60	ID-60T (with Transformer)
Frequency Response	120-6500 cps	85-7500 cps	80-12,000 cps	80-12,000 cps	70-12,000 cps	70-12,000 cps
Power Capacity (Cont. Duty) Full Range Adjusted Range	20 watts 35 watts	30 watts 50 watts	40 watts 60 watts	40 watts 60 watts	60 watts 100 watts	60 watts 100 watts
Voice Coil Impedance	16 ohms	16 ohms	16 ohms	16 ohms	16 ohms	16 ohms
Dimensions (Overall)	4¼" dia. 3" deep	4½" dia. 3¾" deep	4½" dia. 4¾" deep	5" dia. 6¼" deep	4½" dia. 5" deep	6¾" dia. 6¾" deep
Shipping Weight	3 lbs.	3¾ lbs.	4½ lbs.	5¼ lbs.	5¾ lbs.	6¼ lbs.
List Price	\$25.00	\$31.50	\$39.50	\$52.75	\$52.75	\$63.25



**PAGING AND TALK-BACK.** Provide maximum penetration through areas with high noise density. Here are compact, moderate-power speakers capable of literally incredible performance for their size.

MODEL	IB-A	CIB-A	MIL-A	CMIL-A	2WP
Frequency Response	250-13,000 cps	250-13,000 cps	350-13,000 cps	350-13,000 cps	350 cps horn cut-off
Power Capacity (Cont. Duty) Full Range Adjusted Range	25 watts 50 watts	25 watts 50 watts	7.5 watts 15 watts	7.5 watts 15 watts	Depends on driver used
Impedance	4, 8, 45 ohms	4, 8, 45 ohms	4, 8, 45 ohms	4, 8, 45 ohms	Depends on driver used
Dispersion	90°	120° x 60°	120°	120° x 60°	120° ea. horn
Sound Pressure Level	123 db	123 db	115 db	115 db	Depends on driver used
Sensitivity as Microphone	-26 DBM	-22 DBM	-23 DBM	-20 DBM	Depends on driver used
Dimensions	10¼" dia. 9" deep	7¾" high 14" wide 12" deep	7½" dia. 6¾" deep	6¼" high 9½" wide 8½" deep	8½" dia. each bell. 20½" long
Shipping Weight	4 lbs.	5½ lbs.	3¼ lbs.	4 lbs.	4 lbs.
List Price	8Ω—\$34.50 4, 45Ω—\$36.00	8Ω—\$46.00 4, 45Ω—\$47.65	8Ω—\$28.35 4, 45Ω—\$29.66	8Ω—\$32.73 4, 45Ω—\$34.10	\$29.40



### "UNILINE" COLUMN SPEAKERS

- Sharply Reduce Feedback and Reverberation.
- Simplified, Unobtrusive Installation.
- High Efficiency and Power Handling Capacity.

**Model UCS-6**—An all-new in-line radiator incorporating design advances that permit a dramatic reduction in acoustic feedback and reverberation, plus uniform distribution of "live-quality" sound, unusually high power-handling capacity, and simplified, unobtrusive installation. Wide horizontal dispersion and extremely narrow vertical distribution "beam" the radiated sound in a flat, broad pattern for sharply reduced reflection from floors and ceiling—place the sound where it's needed most. Advanced design also avoids "blasting" persons close to speaker for greater listener comfort and improved intelligibility. Designed for crisp, full-range reproduction of music as well as voice, the UCS-6 employs six extended-range 8" speakers for a remarkable wide response of 55-17,000 cps. Power capacity is a full 150 watts. Vertical dispersion, 16°; horizontal, 120°. Impedance, 16 ohms. Neutral finish, 59¼" x 11" x 9½". Shpg. Wt., 55 lbs. List Price: \$299.92

**Model CS-4**—Similar to UCS-6, but 40" high and with four 8" speakers. Response, 70-17,000 cps. Power capacity, 80 watts. Dispersion: vertical, 22°; horizontal, 120°. Impedance, 8 ohms. 40¾" x 11" x 9½". Shpg. Wt., 39 lbs. List: \$216.58

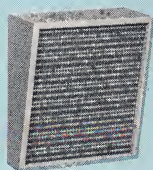
**Model CS-3**—Similar to CS-4 above, for speech use. Response, 150-10,000 cps. Power capacity, 40 watts. Size 49" x 7½" x 8¾". Shpg. Wt., 33 lbs. List \$149.95



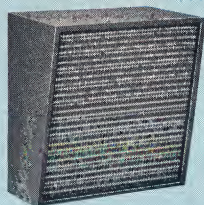
*Craft-built sturdy wood Loudspeaker Baffles and assembled, ready-to-use Reproducers*

## BOGEN BAFFLES AND REPRODUCERS

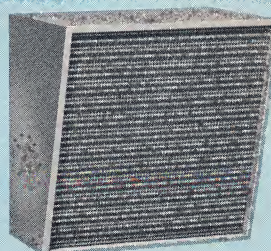
A complete line of quality components designed to meet every requirement in existing or new construction.



WB6  
BLOND



WB8

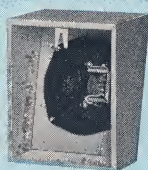


WB12  
BLOND

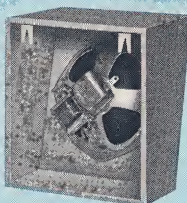
The **BOGEN "WB" and "WSB" Series** of wall mounting baffles and reproducers are attractively designed to complement the decor of any installation. The "WB" series consists of a baffle only, while the "WSB" series consists of a loudspeaker and matching transformer installed in a "WB" series baffle; the loudspeaker is wired to the transformer and the baffle mounting hardware is installed so that the unit is completely ready for installation. This cuts installation time, eliminating possible error and thus reducing costs.

The baffles are ruggedly constructed of highly seasoned woods and attractively styled to match the finest interiors. They are available in either walnut or blond finishes and in any of three different sizes (for 6", 8"

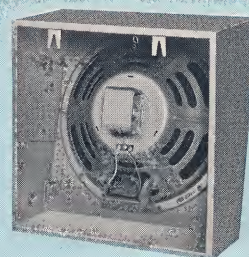
or 12" speaker). The loudspeaker opening is covered with a textured rayon grille cloth which is in harmony with the baffle finish. The face of the baffle slopes to assure maximum horizontal coverage (Refer to Engineering Specification Sheet #ES-BFLS for complete baffle data). The "WSB" series incorporates a wide range loudspeaker of high quality (Refer to Engineering Specification Sheet #ES-SPKR on loudspeakers, Models L115A (6"), L112 (8") and L123 (12"), for complete data). Also a multi-tapped line matching transformer is mounted directly on the loudspeaker to provide proper match between the speaker and line impedance (Refer to Engineering Specification Sheet #ES-XFMR on line matching transformers, for complete data).



WSB6



WSB8



WSB12

### BOGEN REPRODUCERS

REPRODUCER MODEL	DESCRIPTION	BAFFLE	SPEAKER	TRANSFORMER	LIST PRICE		SHIPPING WEIGHT
					Zone 1	Zone 2	
WSB6-T5C	Standard 6" Reproducer	WB6	L115A	T5C	\$15.65	\$16.15	6 @ 16 lbs.
WSB6-T4	Standard 6" Reproducer	WB6	L115A	T4	15.65	16.15	6 @ 16 lbs.
WSB8-T5C	Standard 8" Reproducer	WB8	L112	T5C	19.40	20.65	4 @ 19 lbs.
WSB8-T4	Standard 8" Reproducer	WB8	L112	T4	19.40	20.65	4 @ 19 lbs.
WSB12-T5B	Heavy duty 12" Reproducer	WB12	L123	T5B	35.75	40.25	3 @ 30 lbs.
WSB12-T16	Heavy duty 12" Reproducer	WB12	L123	T16	36.65	41.15	3 @ 31 lbs.

### BOGEN BAFFLES

BAFFLE MODEL	DESCRIPTION	SPEAKER ACCOMMODATED	WIDTH	HEIGHT	TOP	BASE	LIST PRICE		SHIPPING WEIGHT
							Zone 1	Zone 2	
WB6	Standard Wall	6"	7½"	9"	5"	3"	\$ 5.75	\$ 5.90	6 @ 7 lbs.
WB8	Standard Wall	8"	9½"	11⅞"	6⅝"	4⅞"	6.90	7.25	4 @ 11 lbs.
WB12	Heavy Duty Wall	12"	13½"	13½"	9¼"	5¾"	13.75	14.75	3 @ 16 lbs.

**NOTE:** The above model numbers designate a walnut finish. For blond finish add the word blond to model numbers (e.g., the Model WSB8-T5C blond is a blond finished 8" WB8 baffle with Model L112 speaker and Model T5C transformer installed in baffle).

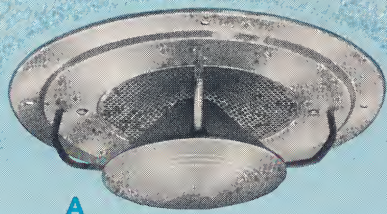
**Baffle and reproducer prices shown are for walnut; blond finish is slightly higher.**



## Famous Bogen-Lowell Speaker Baffles, Protective Speaker Enclosures, Grilles

All are designed to assure maximum performance of the speakers with which they are used.

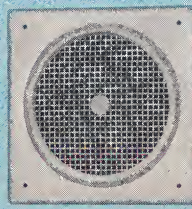
## BOGEN-LOWELL BAFFLES



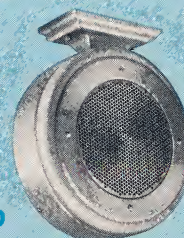
A



B



C



D

**(A) AL Series Low Ceiling Baffles.** With floating conical action. Feature controlled 360° sound coverage, rugged, light weight aluminum construction, attractive appearance. Flush mounting.

AL6-A (mounts to models CP6, XCP6, PR6, PS) ..... List: \$ 7.64

AL8-A (mounts to models CP8, XCP8, PR8, PS) ..... List: \$ 12.39

AL12-A (mounts to models CP1012, XCP1012, PR12) ..... List: \$ 15.61

**(B) CP Series Protective Enclosures.** Designed for quick, labor saving wall or ceiling installation of sound systems in new construction, ready for plastering. Heavy gauge rust-proofed construction. Mounting hardware furnished.

CP84 (mounts AL8-A, RS8-A, JG8, M8, PS8, STL6-A) 4 1/4" Depth.

..... List: \$ 9.17

CP87 (mounts AL8-A, RS8-A, JG8, M8, PS8, STL6-A) 7" Depth.

..... List: \$ 10.44

CP1012 (mounts AL12-A, RS12-A) ..... List: \$ 12.58

**BL Series Normal Ceiling Baffles.** Surface mounting, with floating conical action. Features 360° sound coverage, easy,

quick installation, attractive spun aluminum construction. Eliminates need for hole in ceiling.

BL8-A (for 8" speaker) ..... List: \$ 22.45

BL12-A (for 12" speaker) ..... List: \$ 27.53

**(C) CR Series Ceiling and Wall Type Plastic Baffles.** Rugged design provides 360° dispersion. 10" x 10" grille accommodates 8" speaker.

CR80-P White (mounts to P875X) ..... List: \$ 5.55

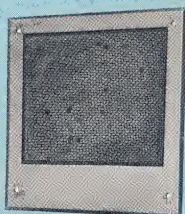
CR80-P Beige (mounts to P875X) ..... List: \$ 5.55

**P875X Protective Speaker Enclosure.** Made of 18 gauge steel. For 8" speaker.

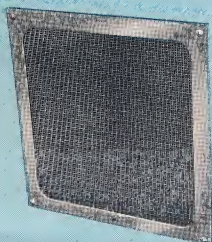
Mounts to CR80-P ..... List: \$ 10.64

**(D) LCB8 Two-way Corridor Baffle.** Functional design in satin aluminum finish, lacquer coat may be used as a base for other finishes. Has area for mounting matching transformer.

LCB8 (for 8" speaker) ..... List: \$ 18.36



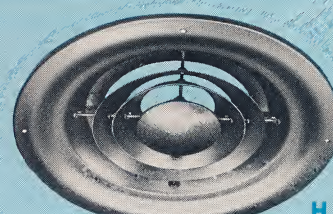
E



F



G



H

**(E) MT Series Motel/hotel Speaker Grilles.** For wall mounting, gold finish with raised screen. Accommodates an 8" speaker. Grille 10 3/4" x 11 1/4". Mounts to P103X, P104X enclosures.

MT-8 (without two 3/8" holes at bottom) ..... List: \$ 6.80

MTH-8 (with two 3/8" holes at bottom) ..... List: \$ 6.95

**M8 Acoustical Tile Block Baffle.** Designed to replace and match a standard 12" square acoustic tile block. Of 22 gauge steel with perforated speaker grille. Random patterns available.

M8 (mounts to CP8, XCP8) ..... List: \$ 7.06

**(F) JG8X in Flat White Finish.** Ideal for ceiling and wall installations. Dimensions 12 1/2" x 12 1/2".

Mounts to CP8, XCP8, P68X, P875X ..... List: \$ 13.94

**EHF80-P Wall Baffle Offers High Quality at Low Cost.** One-piece construction in high impact Styrene.

Mounting bracket included ..... List: \$ 10.98

**(G) RS Series Wall Trim Ring Baffles.** Excellent for modern installations where speakers are recessed in wall. Satin aluminum finish with perforated grille.

RS6-A (mounts to CP6, XCP6, PR6) ..... List: \$ 5.11

RS8-A (mounts to CP8, XCP8, PR8) ..... List: \$ 5.55

RS12-A (mounts to CP1012, XCP1012, PR12) ..... List: \$ 7.75

**(H) STL Series Ceiling-recessed Baffles.** Acoustically correct in performance and design. Outstandingly attractive, mounts recessed in the ceiling. Heavy 18 gauge aluminum is finished in a buffed satin, lacquered so it may be used as a base for painting.

STL8-A (mounts to STP8, XSTP8, XSTPR8) ..... List: \$ 21.25

STL12-A (mounts to STP1012, XSTP1012, XSTPR12) ..... List: \$ 29.75

**STP8 and XCP8 Round Type Protective Enclosures Similar to (B).** The STP8 is designed for new construction, while the XCP8 is used with existing construction. STP8 mounts STL8-A; XCP8 mounts AL8-A, RS8-A, JG8, M8. Heavy gauge rust-proofed steel.

STP8 (for new construction) 7" Depth ..... List: \$ 12.58

XCP84 (for existing construction) 4 1/4" Depth ..... List: \$ 8.22

XCP87 (for existing construction) 7" Depth ..... List: \$ 8.78

**PR Series Plaster Rings for False Ceilings.** Use in place of speaker enclosures. Heavy-gauge rust-proofed steel. Quick-mounting, budget priced.

PR8 (for AL8-A, RS8-A) ..... List: \$ 2.94

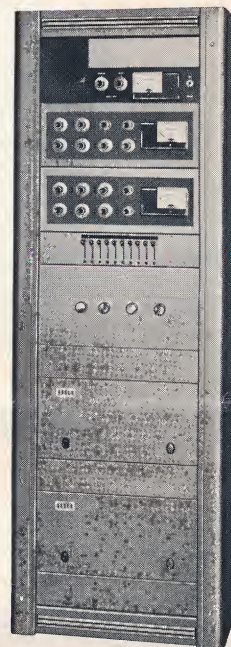
PR12 (for AL12-A, RS12-A) ..... List: \$ 3.83



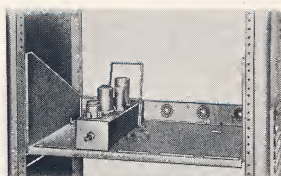
# BOGEN Application-Engineered SYSTEMS

The Bogen "Engineered Sound" Department solves Complex or Unusual Problems in Industrial, Commercial or Institutional Applications... utilizing Standard Bogen Equipment in Combination, or Designing Special Components if Required.

Bogen maintains a separate engineering staff, with complete production facilities, devoted exclusively to building sound systems for applications requiring special equipment or combinations of standard units. Bogen "engineered sound" systems are in use in every branch of industrial and commercial activity, attesting to Bogen's reputation for superlative performance. Typical users of Bogen systems include Sylvania Electric, Remington Rand, Hotel New Yorker, the United States Military Academy, Carnegie Hall, and the Metropolitan Opera House in New York City.



## PROFESSIONAL PLUG-IN COMPONENT LINE



Model CR-1 with Model PDR

**For the Ultimate in Complex Custom Installations** Superb components expressly designed for custom assembly where the sound system must be engineered to satisfy critical and/or complex requirements. Individual components can be quickly plugged-in and removed from the CR-1 rack mounting kit, thus greatly reducing time required for substitution or servicing. The extreme flexibility of the equipment permits its use in an almost unlimited number of combinations.

- ④ **PDR Preamplifier** — Amplifies low level signals (e.g. microphone output).
- LA-1 Line Amplifier** — For use as: (1) Preamplifier for tuner or phono cartridge; (2) Amplifier to compensate for insertion loss of mixing networks.
- PSB Power Supply** — Powers PDR and LA-1 amplifiers, POS-1 and POT-1 oscillators.
- PSR-A Power Supply** — Provides 24 volt DC current for relays, etc.
- POS-1 Siren-Tone Oscillator** — Has tonal quality of a large siren.

- POT-1 Chime-Tone Oscillator** — Functions as chime tone, constant tone, or dual tone oscillator.
- CR-1 Rack Mounting Kit** — Accommodates up to 5 plug-in units. 19" x 8 3/4".
- MP1 Monitor Panel** — Mounts speaker, meter, controls. 19" x 7".
- RVX Remote Volume Control** — Operates up to 1200 ft. from PDR or LA-1.
- RTX Tone Control** — Provides separate bass and treble controls. With 11" cable and plug.
- PLUG-IN TRANSFORMERS** — Complete line available.

Ask for Individual Specification Sheets for Complete Data



LEAR SIEGLER, INC.

BOGEN COMMUNICATIONS DIVISION

PARAMUS, NEW JERSEY